**Natural Selection Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**The Peppered Moth is a classic example of natural selection in action.**

**Please go to the following website:**

<http://www.techapps.net/interactives/pepperMoths.swf>

1. 

Click on Life Cycle icon

1. Describe the Peppered Moth including its variations and its habitat.

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1. When are predators most likely to spot the peppered moth?

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1. What characteristics enable the peppered moth to avoid predation?

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1. Click on Impact of Pollution icon
   1. What happened to the proportion of dark coloured moths in the moth population around English cities between 1848 and 1900?

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* 1. What initially caused the black colouration in the moth?

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* 1. Charles Darwin proposed changes in populations occurred by a process of natural selection. What is Natural Selection?

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* 1. Why did the dark moths have an advantage around the cities in the late 1800s?

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* 1. In terms of natural selection, why are light moths again becoming more common in the forests?

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1. Click on Kettlewell’s Experiment
   1. Describe one of Kettlewell’s experiments and how it supported the hypothesis that natural selection resulted in the change in proportion of dark moths in the population.

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1. Click on a Birdseye View of Natural Selection and play the simulation game for a dark forest and a light forest.
   1. What did you notice about the population change in dark and light coloured peppered moths?

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1. Go to <http://www.nhm.ac.uk/nature-online/evolution/what-is-evolution/natural-selection-game/the-evolution-experience.html> and play the simulation game
   1. Which variation in beetle colour(blue or green) was the ‘fittest’ in this game?

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* 1. What was the ‘selection pressure’ on the beetle population?

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